SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG <u>06I-0519-01</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 334 Pad

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Cover Page

Report Identification Number:

06I-0519-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001/R34400 J452 R33400 J4S

Payroll#: 8C278

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
06 Feb 2006	J113V3	06I04319	NMAM 7300M	G0618004	G WIPE
06 Feb 2006	J113V4	06104320	NMAM 7300M	G0618004	G WIPE
06 Feb 2006	J113V5	06I04321	NMAM 7300M	G0618004	G WIPE
06 Feb 2006	J113V6	06I04322	NMAM 7300M	G0618004	G WIPE

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Name: Lisa M. Reid Title: Chemist

Date: February 13, 2006

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Case Narrative Page

Report Identification Number: 06I-0519-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R34400 J452

Payroll#: 8C278

General Set Information: There are 4 samples in set 06I-0517-01, 4 samples in set 06I-0518-01, 4 samples in set 06I-0519-01, 4 samples in set 06I-0545-01, 4 samples in set 06I-0546-01 and 4 samples in set 06I-0547-01 which were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

<u>Instrument Calibration:</u> Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of $\pm 10\%$.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.02 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.1 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 3. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

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<u>Dilution(s):</u> None.



Case Narrative Page

Laboratory Control Sample and Duplicate Analysis: Two Laboratory Control Samples (LCSs) and two Laboratory Control Sample Duplicates (LCSDs) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCSDs and the LCSDs were within the control limit of 20%.

Replicate Analysis: Four samples in this batch were replicated. The RPD between the samples and the replicates was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (ug/sample) = (A) x (B) x (C)

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu g/L$)

B = Concentration factor from sample preparation

= Final Volume of Digestate (L)

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

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Miscellaneous Comments: None





Report Page

Report Identification Number: 06I-0519-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R34400 J452

Payroll#: 8C278

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sampl	- 1	Cadmiun µg/sampl		Lead µg/sampl	le
J113V3	06I04319	09 Feb 2006	0.020		0.18		<3.	U
J113V4	06I04320	09 Feb 2006	< 0.02	U	<0.1	U	<3.	Ū
J113V5	06I04321	09 Feb 2006	< 0.02	U	<0.1	U	<3.	U
J113V6	06I04322	09 Feb 2006	< 0.02	U	<0.1	U	<3.	U
	0.	.02	(0.1		3.		
R	equired Detecti	ion Limit (RDL)						

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

Report Identification Number: 06I-0519-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R34400 J452

Payroll#: 8C278

Batch ID: G0618004

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-241089-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
BL-241089-1	MB	Cadmium	μg/sample	ND	NA	NA	NA	NA
BL-241089-1	MB	Lead	μg/sample	ND	NA	NA	ÑA	NA
QC-241089-1	LCS	Beryllium	μg/sample	12.1	NA	10.0	121.	NA
QC-241089-1	LCS	Cadmium	μg/sample	33.6	NA	30.0	112.	NA
QC-241089-1	LCS	Lead	μg/sample	106.	NA	100.	106.	NA
QD-241089-1	LCSD	Beryllium	μg/sample	11.9	12.1	10.0	119.	1.59
QD-241089-1	LCSD	Cadmium	μg/sample	33.5	33.6	30.0	112.	0.375
QD-241089-1	LCSD	Lead	μg/sample	105.	106.	100.	105.	0.339

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) * 100.

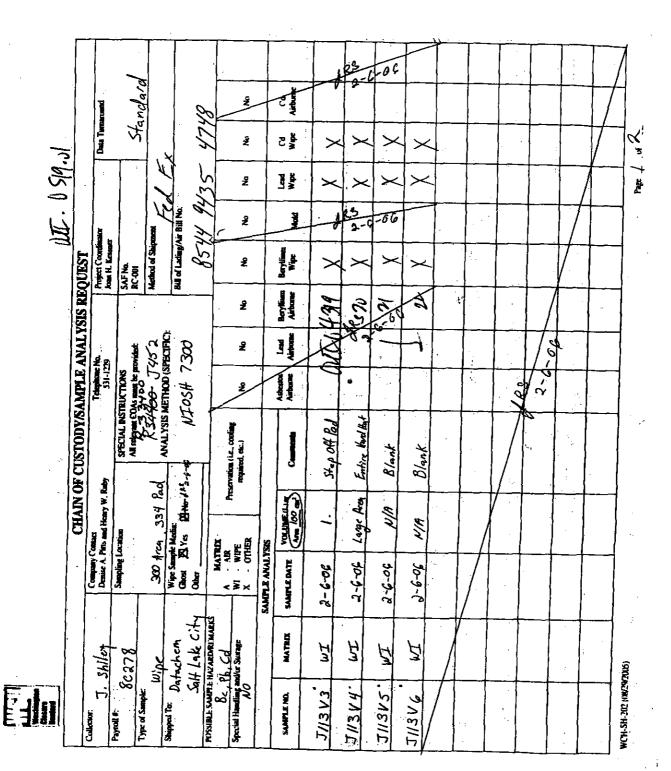
LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

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WCH-SH-202 (08/29/2005)

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Page 7 of 7

Page: 2 . of 2 ._

COC Page



			CHA	IN OF	CUSTODY/S.	AMPLE	ANALY	SIS RI	EQUEST					
Collector:	Shiley	Company (Denise A. J	ontact	y W. Ruby					Project Coordinator Joan H. Kessner			Data Turnaround		
Pavroil #:	2278	Sampling L	ocation		} - · · ·	CIAL INSTRUCTIONS SAF No. relevant COAs must be provided: RC-001			540	Standard				
Type of Sample:	wine 300 Area 334 Pad R3					R34460 J452 Method of Ship					1 E	- X		
Shipped To: Da	tachem It Lake City	Ghost 2	ike Media: SLYes D	12 No de 2-6-0 NJOSH 7300					Bill of Lading/	Lir Bill No.	135		18	
POSSIBLE SAMPLE Be Special Handling an	b. Cd	A - All	R !PE	Preservation (i.e., cooling			No	No	No	No	No	No	No	
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST										
		SIGN / PRINT NAMES	USE MILITARY TIME							
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